BRUHAT BANGALORE MAHANAGARA PALIKE

Asst.Executive Engineer,
Project Sub Division,

Name of Work :- Improvements Building and Civil Work at Mallasandra Colony in Mallasandra Ward No 13

Est Cost:30.00 Lakhs

Bruhat Bangalore Mahanagara Palike

Excecutive Engineer Dasharahalli Division

Name of Work :- Improvements to Building and Civil Work at Mallasandra Colony in Mallasandra Ward No.13, Shettyhalli Sub Division

Est Cost: Rs.30.00

Sl.No	Description of work	Mesurement				Qty	Unit	Rate	Amount
		Nos	L	B	D				
1	Dismalting Cement concrete Flooring or plain cement concrete work including removing and conveying the debris to distance up to 200m (within axerage thickness of 15 cms) Pg-25 Item No-5.34								
	For School Building Hall	1	18.70	5.30	0.20	19.82			
	Corridor	1	19.20	2.23	0.20	8.56			
						28.38	**Cum**	**59.40**	**1685.77**
2	Providing and laying in position plain cement concrete of mix 1;3;6 with opc cement @220kgs with 20 mm and down size graded granite metal course aggregate @0.84cum and fine aggregates @0.56 cum machine mixed,laid in layers not exceeding 15cms thick well compacted in foundation,plinth and cills including cost of all materials,labour,HOM OF machinary, curing complete as per								
		1	18.70	5.30	0.18	17.34			
		1	19.20	2.23	0.15	6.42			
						23.76	**Cum**	**5449.68**	**129484.40**
3	Providing and Laying in position reinforced cement concrete of design mix M20 with OPC cement @ 300Kgs with 20mm and down size graded granite metal course aggregate @ 0.64cum and fine aggregate @ 0.43cum, with superplastisiser @ 3ltr confirming to IS 9103-1999 Reaffirming 2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground level for roof slab, stairecase, lintels, retaining wall , return wall, wall (any thickness) including attahed plasters, column , piers, abutmentspillers, posts, struts, buttresses, string or laceing courses, parapets, coping, bed blocks, anchor hooks plain window cill, fillets, etc.., including cost of all materials, Labours, HOM of Machineries, curing complete as per specification (Page No								
	For School Building F	1	18.70	5.30	0.10	9.91			
	Corridor	1	19.20	2.23	0.10	4.28			
	For WPC On Roof	1	18.95	7.95	0.10	15.06			
	For Dias	1	4.10	2.65	0.10	1.08			
						30.33	**Cum**	**5985.36**	**181535.97**

4	Providing and laying flooring using prepolished, **water cut/gang saw 19mm thick** granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not								
		1	18.70	5.30		99.11			
		1	19.20	2.23		42.81			
	For Skirting	1	18.70	0.10		1.87			
		1	5.30	0.10		0.53			
		1	16.05	0.10		1.60			
		1	4.10	0.15		0.61			
		1	2.65	0.15		0.39			
	Corridor	2	19.20	0.10		3.84			
		2	2.23	0.10		0.44			
						151.20	**Sqm**	**2828.52**	**427672.22**
5	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including primary coat with distemper primer after thoroughly brooming the surface free from morter drops and other foreign matter including preparing surface even and sand paper smooth, cost of naterial labour complete as per specification (page No-117,Item No-15.49-1 PWD SR 2016-								
	In side School Building	2.00	5.30	2.90		30.74			
		2.00	18.95	2.90		109.91			
		1.00	19.20	2.90		55.68			
	For Ceiling	1	18.70	5.30		99.11			
		1	19.20	2.23		42.82			
	For Beams	10	4.95	0.40		19.80			
		8	2.23	0.40		7.14			
		2	18.70	0.40		14.96			
	Anganavadi					0.00			
	In side GF	2	13.75	2.90		79.75			
		2	1.80	2.90		10.44			
		2	3.90	2.90		22.62			
		2	5.80	2.90		33.64			
		2	7.65	2.90		44.37			
		2	3.90	2.90		22.62			
		1	13.75	1.80		24.75			
		1	3.90	5.80		22.62			
		1	7.65	3.90		29.84			
	First Floor	4	4.70	2.90		54.52			
		12	1.40	2.90		48.72			
		12	1.20	2.90		41.76			

		2	1.48	2.90		8.58			
		2	2.28	1.20		5.47			
		2	4.70	2.68		25.19			
						855.0			
	deductions	2	1.05	2.10		4.41			
	W	12	1.05	1.20		15.12			
Anganavadi	D	2	1.00	2.10		4.20			
	D-1	2	0.90	2.10		3.78			
	W	4	0.90	1.20		4.32			
	W-1	4	0.90	1.20		4.32			
	D-2	6	0.75	1.05		4.73			
	V	6	0.60	0.50		1.80			
						42.68			
					Total Quant	812.37	**Sqm**	**76.68**	**62292.53**
6	Providing and applying two coats of wall putty to inside plaster walls and ceiling using white cement putty. Scapping and leveling the surface using steel blade and preparing the surface even and smooth by using different grade, sand papers including cost of materials, cost of labour, scaffoldings etc., complete as per specifications(page N0.								
	Qtty as item No. 5	**812.37**							
	10% of the above Qtty	**81.24**				**81.24**	**Sqm**	**60.48**	**4913.40**
7	Provding and finishing Externel walls in two coats over one coat of 100% acrylic silicon glaze primer with anti fungal paint for coat of approved brand and shade to give an even shade after thoroughly brooming the surface toremove all dirt and loose powdered materials,complete as per specification (Page No-125, Item No-								
	School Building Out s	2	19.2	4.18		160.51			
		1	5.76	4.18		24.07			
		1	3.76	4.18		15.71			
		1	2.00	1.18		2.36			
	Circular Column	7	0.82	2.45		14.06			
	Anganavadi G F	2	14.20	3.45		97.98			
		2	6.40	3.45		44.16			
	F F	2	4.60	3.00		27.60			
		2	4.30	3.00		25.80			
						412.25			
	Deductions For openin	2	1.05	2.10		4.41			
	D-1	2	1.00	2.10		4.20			
	W	12	1.05	1.20		15.12			
	W-2	4	0.90	1.20		4.32			
	V	6	0.60	0.50		1.80			

						29.85			
					Total Quantity	382.40	**Sqm**	**76.68**	**29322.43**
8	Providing and fixing M.S Grill work for windows and ventilators weighing 21kg/sqm using M.S flats or M,S square rods,or combinations of M.S Flats and square rods,as per approved design.Drawing including cutting steel sections and welding the same to required pattern with a coat of Red lead primer,including cost of materials laboyr and H O M of machineries complete as per								
	School Building	1	2.10		2.45	5.14			
		1	2.90		2.45	7.10			
		1	2.85		2.45	6.98			
		1	2.98		2.45	7.30			
		1	2.92		2.45	7.15			
		1	2.90		2.45	7.10			
		1	2.75		2.45	6.73			
		1	2.18		2.45	5.34			
		1	1.30		2.80	3.64			
		1	1.20		2.40	2.88			
						59.36	**Sqm**		
	59.36 Sqm @21kg/Sqn	Kgs				1245.7	**Kgs**	**84.24**	**104939.45**
9	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement morter 1;4 masonry (quoin,jamb,closer blocks) with solid block of size 400x150x200cms conforming to I.S;2185/1965 in super structure including cost of materials, labour charges, scaffolding, curing complete as per specification (Page No-25 Item No-5.34)								
	School Building	1	1.20		2.10	2.52			
		2	2.2		0.60	2.67			
		1	18.7		0.60	11.22			
	Anganavadi G F	2	2.1		2.40	9.84			
		1	14.2		2.40	34.08			
	For store room @ Anganavadi	7	0.5		1.65	5.19			
						65.52			
	Deductions For openings D	1	0.9		2.40	2.16			
	W	4	0.9		1.20	2.16			
						4.32			
					Total	61.20	**Sqm**	**979.56**	**59949.07**
10	Providing 20mm thick cement plaster in single coat with cement morter 1;6 to stone masonry & concrete surface including rounding off corners wherever required smooth rendering. Providing and removing scaffolding including cost of materials, labour, curing completew as per specifications. (Page No-114, Item No-15.18)								
	Out sideSchool Buildin	1	1.20		2.10	2.52			
		2	2.23		0.60	2.67			
		1	18.70		0.60	11.22			
	Anganavad	2	2.05		2.40	9.84			
		1	14.20		2.40	34.08			

						60.33			
	Deductions	1	0.90		2.10	1.89			
		4	0.90		0.60	2.16			
						4.05			
					Total	**56.28**	**Sqm**	**224.64**	**12642.74**
11	Providing 12mm thick cement plaster in single coat with cement mortar 1:6 to stone masonry & concrete surface including rounding off corners whereever required smooth rendering providing and removing scaffoldings including cost of materials,labour,curing complete as per specification (P.No. 113-I.No.15.11)								
	For School Building	1	1.20		2.10	2.52			
		2	2.23		0.60	2.67			
		1	18.70		0.60	11.22			
	For Anganavadi	2	2.05		2.40	9.84			
		1	14.20		2.40	34.08			
						60.33			
	Deductions For openin	1	0.90		2.10	1.89			
		4	0.90		0.60	2.16			
						4.05			
					Total	**56.28**	**Sqm**	**162.00**	**9117.36**
12	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully open able as per approved drawings using Z angles of 25x33x3mm, weighing 1.419kg/m both for outer and inner framesand central mullion section of size 25x46x3mm weighing 2.28kg/m duly providing T section 19x19x3mm weighing 0.839kg/m for glazing of windows not more than 34cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size, all steel section should confirm to I.S. 7452:1990, 4Nos, of holdfasts of approved size section should be cut to length welded and electrically grinded subdividing frames of unit shall be tononned and revetted into the frames electrically. all the steel surface shall be throughly cleaned free of rust and painted with one coat of anticorrosive paint and								
	Doors	2	0.90		2.40	4.32			
	Windov	4	0.90		0.60	2.16			
						6.48	**Sqm**	**3812.40**	**24704.35**
13	Providing and applying red lead ready mix primary coat over new steel or other metal surface including preparing the surface after throughly cleaning oil,grease,dirt and other foreign matter, and scoured with wire brushes,fine steel wool, sand papers including cost of materials,labour,complete as per specification(Pg.No. 121, T.No.15.73)								
	Quantity as Item No-8	59.36				133.56	Sqm	**31.32**	**4183.10**

14	Providing and applying enamel metal paint in two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil,grease,dirt and other foreign matter,including cost of materials, labour,complete as per								
	Quantity as Item No-13		133.56			133.56	Sqm	88.56	11828.07
15	Providing Honne Wood frames of Doors,windows,clere story windows,ventilators and other frames,wrought,framed or assembled including making laster groves(excluding cost of cement concrete and side clamps), but including cosst of materials, labour,HOM of machineries complete as per specifications(Pg.No. 51/I.No9.11)								
	D	4	1.05	2.10	0.12	1.05			
	W	16	0.90	1.20	0.12	2.07			
						3.12	Cum	111083.40	346580.21
16	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 30mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and pannels of 25mm thick including cost of materials,labour,HOM of machineries of complete as per specification.(Excluding cost of								
		3	1.05		2.10	6.62	Sqm	4472.28	29606.49
17	Providing and fixing in position Honne wood fully panelled shutters for windows with styles and rails of 35mm thick,75mm wide in two halves with panels of 25mm thick including cost of materials,labour charges,HOM of machineries complete as per								
	W	12	0.90	1.20		12.96			
		4	0.90	1.20		4.32			
						17.28	Sqm	5279.04	91221.81
18	Hinges 5" Heavy duty (Page No-XIV SL.No-395								
		2	3.00			6.00	Nos	37.00	222.00
19	Handles powder coated 150 mm (Page No-XIV ,SLNo-393)								
		2	3.00			6.00	Nos	60.00	360.00
20	Tower bolt 300mm long (Page No-XIV ,SLNo-412)								
		2	3.00			6.00	Nos	120.00	720.00
21	Door Lock (Page No-XIV ,SLNo-391)								
		2				2.00	Nos	410.00	820.00
22	Construction of Embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site,spreading,grading to required slope and compacting to meet requirment Table 300-2 complete as per specifications(Which includes cost of gravel/murrum,watering charges & Compaction by								
	for CC pavement								
		1	15.50	5.95	0.45	41.50			
		1	5.00	8.38	0.45	18.85			
		1	35.00	6.95	0.45	109.46			

		1	7.50	12.30	0.35	32.28			
		1	7.00	1.80	0.45	5.67			
		1	4.45	0.90	0.45	1.80			
						209.56	Cum	**326.16**	68350.09
23	Proiding laying, spreading , and compacting stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compactinng with vibratory roller to achieve the desired density. Complete as per specifications. MORTH specification No.406(P.No.158-I.No.20.18)								
	for CC Pavement								
		1	15.50	5.95	0.20	18.44			
		1	5.00	8.38	0.20	8.38			
		1	35.00	6.95	0.20	48.65			
		1	7.50	12.30	0.20	18.45			
		1	7.00	1.80	0.20	2.52			
		1	4.45	0.90	0.20	0.80			
						97.24	Cum	**1801.44**	**175172.03**
24	Construction of dry lean cement concrete cement mix CC 1:5:10 with OPC cement @ 160kgs, with 25mm and down size graded gmite metal course aggregate at 0.86cum and fine aggregates @ 0.58 cum sub-base over a prepared sub-grade with (course and fine aggregate conforming to IS:383) Aggregate cement ratio not exceed 15:1 aggregate gradiation after blending to be as per table 600-1 cement content not to be less than 160kg/cum optimum moisture content to be determined during trail length construction,concrete strength not to less than 10Mpa at 7days,mixed in a batching plant, ttransported to site, laid with a paver with electronics sensor, compacting with 8-10 tonnes vibratory roller,finishing and curing complete as per specificationn (I.No.22.1 & Pg.No.176)								
	for CC pavement								
		1	15.50	5.95	0.15	13.83			
		1	5.00	8.38	0.15	6.28			
		1	35.00	6.95	0.15	36.48			
		1	7.50	12.30	0.15	13.83			
		1	7.00	1.80	0.15	1.89			
		1	4.45	0.90	0.15	0.60			
					Total qty.	**72.91**	**cum**	**4061.88**	**296151.67**

25	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @								
	for CC pavement								
		1	15.50	5.95	0.15	13.83			
		1	5.00	8.38	0.15	6.28			
		1	35.00	6.95	0.15	36.48			
		1	7.50	12.30	0.15	13.83			
		1	7.00	1.80	0.15	1.89			
		1	4.45	0.90	0.15	0.60			
					Total qty.	**72.91**	**Cum**	**6335.28**	**461905.26**
26	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery,screed vibratory,power Floater,blade and disc etc., with all lead and lift PWD SR 2016-								
	passage behind hospital	1	15.50	5.95		92.22			
	for passage behind school	1	5.00	8.38		41.90			
		1	35.00	6.95		243.25			
		1	7.50	12.30		92.25			
		1	7.00	1.80		12.60			
	compound wall	1	4.45	0.90		4.00			
		1				486.22	**sqm**	**97.20**	**47260.58**
27	HDPE 110mm outter dia 2.2kg/sqcm (Pg.NoXVII/I.No.516)								
	school building	**4**	4.00			**16.00**			
	for Anganavaadi	**3**	4.00			**12.00**			
						28.00	**Rmtr**	**185.00**	**5180.00**
28	KSRB : 14,10-3 : Providing flooring with 20mm thick polished kadapa slabs using cement mortar 1:6 25mm thick over existing cement concrtete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab including cost of materials, labour,curing,polishing complete as								
	For store Room	**3**	5.35	0.45		**4.81**			
		2	2.40	0.45		**2.16**			
						6.98	**Sqm**	**1193.40**	**8329.93**

29	KSRB 15-13 : Providing and applying one coat distemper primer of approved brand on wall surface throughly brooming the surface to remove all dirt, dust mortar drops and other foreign particals including preparing the surface even and sand paper smooth cost of materials , labour complete as per specification(Pg. No.								
	Qtty as item No. 5&7					**1200.77**	**sqm**	**27.00**	**32420.79**
30	Earth work excavation for foundation of building, culverts, water supply sanitary lines, and electrical conduits either pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m in depth including dressing bottom and sides of pits and trenches, stacking excavated soil clear from edges of excavation with lead up to 50m after breaking of clods complete as per								
	For Kerb LHS	**1**	33.98	0.30	0.30	**3.05**			
	RHS	**1**	19.90	0.30	0.30	**1.79**			
						4.84	**Cum**	**305.64**	**1479.30**
31	Providing and fixing Pre cast solid concrete kerb stones made out of CC1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.Page No.25/ Item No. 5.29 and 5.29.1/ PWD SR 2016-								
	For Kerb LHS	**1**	33.98						
	RHS	**1**	19.90						
			53.88						
	53.88/0.45=119.73					**119.73**	**Nos.**	**393.12**	**47068.26**
32	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2 Page No.12/ Item No. 4.3/ PWD SR 2016-17								
	For Kerb LHS	**1**	33.98	0.30	0.15	**1.53**			
	RHS	**1**	19.90	0.30	0.15	**0.90**			
						2.42	**Cum**	**5256.36**	**12744.57**
33	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No. 181/ Item No. 24.1/ PWD SR 2016-17								
		1	53.88	0.30		**16.16**		**63.60**	**1027.78**

34	Providing groove cutting to concrete pavement for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant, etc., including cleaning of grove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all amterials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.(P.No.178, I.No.22.8.1 of								
		3	5.95			17.85			
		7	6.50			45.50			
		3	8.38			25.14			
						88.49	Rmtr	124.2	10990.46
								Sub Total	**2701882.10**
	KRIDL Charges, Miscelleneous & Rounding off								**298117.90**
								Grand Total Rs.	**3000000.00**
	(Rupees Thirty Lakhs Only)								

CERTIFICATE

1 *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2 *Certified that the work is not split*
3 *Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2016-17*
4 *Certified that Adeqate & necessary provisions have made in the estimate.*
5 *Certified that the above area comes under BBMP limit*

Asst Engineer
Project
BBMP

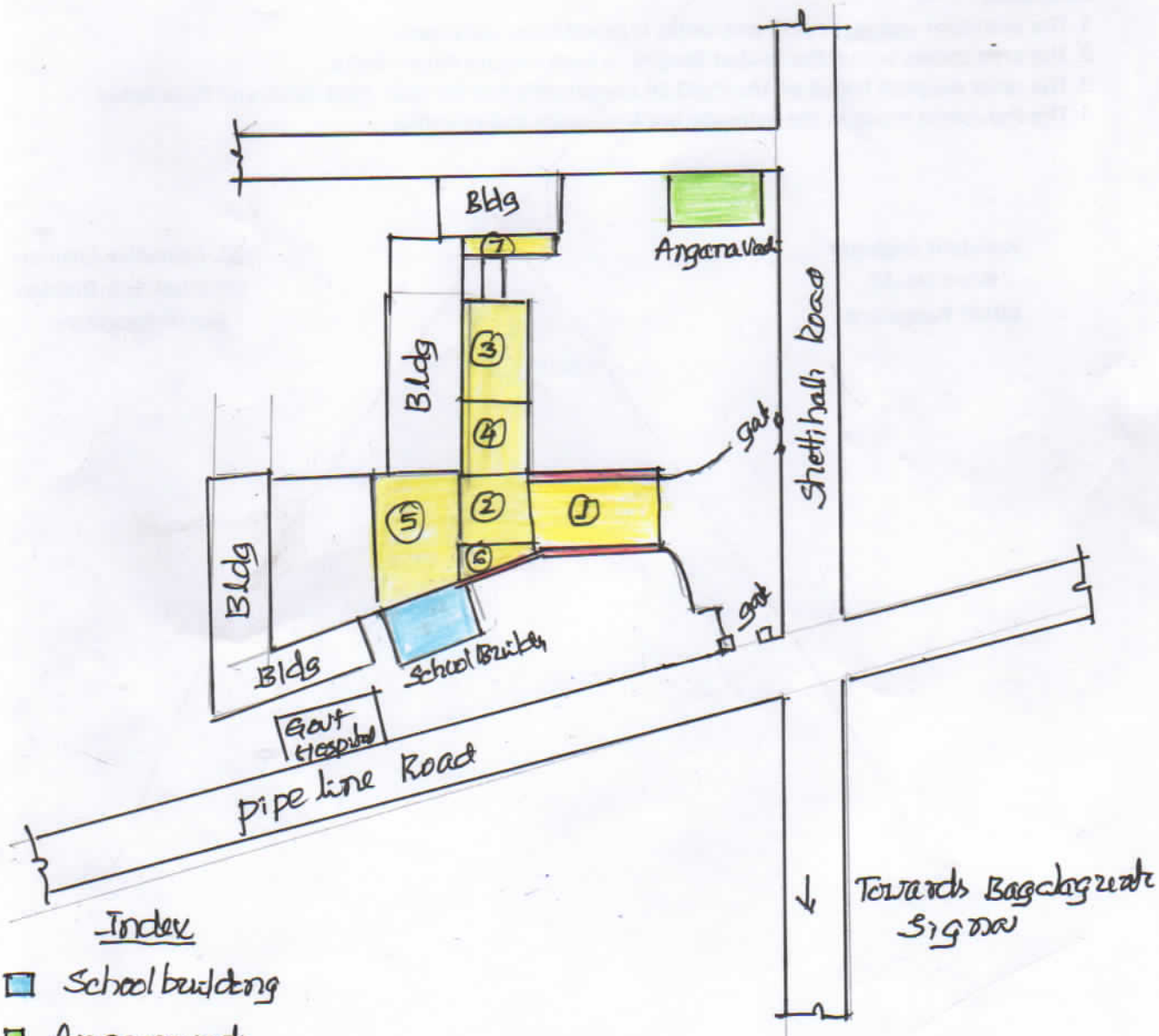
Asst.Executive Engineer
Project Sub Division
BBMP

Executive Engineer
Project Division, Dasarahalli
BBMP

ನಂ: 17/IT-18 ದಿನಾಂಕ: 18/11/2017
ರೂ: 30,00,000/- Thirty Lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ

ನಂ. CE/TS/268/17-18 ದಿನಾಂಕ : 20/11/2017
ರೂ. 30,00,000/- Thirty Lakh only
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿ
ಬಿ.ಬಿ.ಎಂ.ಪಿ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

Name of the work: Improvements to Building and civil works at Mallasandra colony in Mallasandra ward No: 13 Shettihalli Subdivision



Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

WARD : 13 - MALLASANDRA

NOTIFICATION NO: UDD 59 MLR 2007, DATE: 15.07.2009

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike